

Module Descriptions

A **module** is a self-contained **learning unit** within a higher education program that includes thematically related courses and is assigned a **fixed number of credits**. It follows specific **learning objectives**, includes an **assessment component**, and contributes to achieving the qualifications of a degree program. In some countries, “modules” are also named “courses”.

Please provide a module description for each module. In addition to the compulsory and elective modules, this also includes credited internships and the final thesis.

Please summarize all module descriptions in one document (Module Handbook) and create a table of contents so that the modules can be found easily.

Module designation	<i>Research Methods and Scientific Writing</i>
Semester(s) in which the module is taught	4
Person responsible for the module	<i>Prof. Dr. Ir. Elkawakib Syam'un, MP.</i>
Language	<i>Bahasa Indonesia</i>
Relation to curriculum	<i>Compulsory / elective / specialisation</i>
Teaching methods	<i>Face-to-face lectures and independent learning</i>
Workload (incl. contact hours, self-study hours)	1. Lectures: $2 \times 50 \times 16 = 1,600$ minutes (26.67 hrs) 2. Structured assignments: (total $2 \times 60 \times 16$) = 1,920 minutes (32 hrs) - Individual assignments: $2 \times 120 \times 3 = 720$ minutes (12 hrs) - Group assignments: $2 \times 120 \times 3 = 720$ minutes (12 hrs) - Quiz: $2 \times 15 \times 10 = 300$ minutes (4 hrs) - Discussion: $2 \times 30 \times 3 = 240$ minutes (4 hrs) 3. Independent study: (total $2 \times 60 \times 16$) = 1,920 minutes (32 hrs) - Accessing SIKOLA, participating in online discussion forums, reading materials, etc. 4. Practicum: (total: $1 \times 170 \times 16$) = 2,720 minutes (45.33 hrs) - Field work: $1 \times 170 \times 8 = 1,360$ minutes (4 hrs) <i>Field visit activities: $1 \times 170 \times 8 = 1,360$ minutes (4 hrs)</i>
Credit points	<i>3 credits equal to 4.86 ECTS</i>
Required and recommended prerequisites for joining the module	-

Module objectives/intended learning outcomes	<i>In terms of knowledge:</i> - <i>Students are able to understand the basic concepts of the scientific method and the objectives of research in the field of agriculture.</i> - <i>Students are able to explain various types of research and their distinctions.</i> - <i>Students are able to explain data collection and data analysis techniques.</i> - <i>Students are able to apply scientific writing methods in preparing academic or scientific papers.</i>
Content	1. <i>Scientific Methods and Objectives of Agricultural Research</i> 2. <i>Types of Research</i> 3. <i>Data Collection and Analysis</i> 4. <i>Writing Ethics: Intellectual Property, Plagiarism, Citation Practices, and Language in Scientific Writing</i> 5. <i>Elements of Scientific Writing</i> 6. <i>Writing the Background Section</i> 7. <i>Writing the Literature Review and Utilizing Search Engines/Referencing Software</i> 8. <i>Writing the Research Methodology</i> 9. <i>Illustrations in Scientific Writing</i> 10. <i>Numbers, Units, Abbreviations, and Symbols</i> 11. <i>Preparing and Writing Research Results</i> 12. <i>Writing the Discussion and Conclusion</i> 13. <i>Abstract, Acknowledgments, and Appendices</i> 14. <i>Writing Practice and Review</i>
Examination forms	<i>Quiz, individual assignment, group assignment, discussion</i>
Study and examination requirements	<i>To successfully pass the module, students must attend at least 80% of the classes, complete all assignments and exams, and obtain a final grade of at least 45% (minimum passing grade: D).</i>
Reading list	1. <i>Gusli, S. (2021). Writing Undergraduate Theses in the Field of Science. Ficus Press, Makassar.</i> 2. <i>Gusli, S. (2013). Scientific Writing and Publication in Agro-Sciences: Thesis, Dissertation, and Articles. Identitas Unhas, Makassar.</i>